

## Summary of the Invention

On Page 5, Line 8, delete "such as a fluorinated polymer" and substitute - - such as fluorocarbon elastomer such as Viton - -.

### Replacement Paragraph incorporated with above changes

The paragraph below starts on Page 4 and ends on Page 5 of the Application

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61. The present invention is directed to dampers that operate in a vacuum environment where the reduction of outgassing is critical. The novel design incorporates the combination of multiple layers of highly damped and low outgassing materials. Typically, dampening materials that possess a high dampening quality possess poor outgassing performance. While on the other hand, dampening materials that possess excellent outgassing performance typically have poor dampening qualities. The present invention solves this problem by joining different types of dampers in just the right ratio for a given environment to produce a damper that provides high dampening with low outgassing. The highly damped materials are completely disposed within the low outgassing materials thereby producing a product that has the desired dampening qualities while at the same time significantly reducing the negative side effects of outgassing volatiles. The highly damped layers are made from a highly damped material with the preferred embodiment being a low modulus high damped elastomeric polymer. The exterior layers are made from a low outgassing dampening material with sufficient structural integrity to stiffen the damper. The preferred embodiment of the exterior layer would be a low tensile strength elastomer material such as fluorocarbon elastomer such as Viton. ~~such as a fluorinated polymer.~~

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Detailed Description of the Preferred Embodiment

On Page 7, Last Line, delete "being a fluorinated polymer" and substitute - - being a fluorocarbon elastomer such as Viton - -.

Replacement Paragraph incorporated with above changes

The paragraph appear at the bottom of Page 7 of the Application

b2  
The highly damped layer 12 is made of any highly damped material with the preferred embodiment being a low modulus high damped elastomeric polymer. The low outgassing layer 14 is made from a dampening material that possesses low outgassing properties with the preferred embodiment being a fluorocarbon elastomer such as Viton.  
~~being a fluorinated polymer.~~

Complete list of Claims as Amended

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Claim 1 (currently amended): A Multiple Layered Highly Damped Vibration and Shock Damper with Low Outgassing Properties comprising a [[A]] multiple of highly damped layers and low outgassing layers;

where said highly damped layers are completely disposed within said low outgassing layers;

where each of said highly damped layers and said low outgassing layers have an interior and exterior surface with the exception of the innermost highly damped layer which only has a said exterior surface ~~an external surface~~;

where the said layers are oriented in such a manner ~~matter~~ that the exterior surface of a given layer is connected to the interior surface of an adjoining layer.

b3  
Claim 2 (currently amended): A Multiple Layered Highly Damped Vibration and Shock Damper with Low Outgassing Properties as in is claim 1 wherein at least one of the highly damped layers is ~~wherein the highly damped layer is~~ made of a low modulus elastomeric polymer.

Claim 3 (currently amended): A Multiple Layered Highly Damped Vibration and Shock Damper with Low Outgassing Properties as in is claim 1 wherein at least one of the low outgassing layers is ~~wherein the low outgassing layer is~~ made of a fluorocarbon elastomer ~~fluorinated polymer~~.

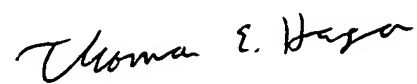
Claim 4 (canceled)

Claim 5 (canceled)

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If you have any questions regarding this office action please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Thomas E. Hagar". The signature is written in dark ink and is positioned above the printed name and registration number.

Thomas E. Hagar  
Registration No. 42,617